

# PATENT ABSTRACTS OF JAPAN

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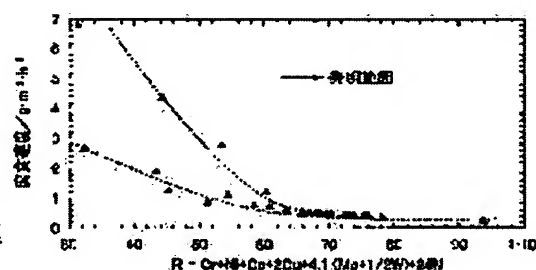
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SATO MASAHIRO**(54) HIGH CORROSION RESISTANT CLAD STEEL****(57)Abstract:**

**PROBLEM TO BE SOLVED:** To provide a material having excellent corrosion resistance, mechanical properties and economical efficiency to e.g. an oxidative decomposition treatment plant using high-temperature high-pressure fluids.

**SOLUTION:** In the high corrosion resistant clad steel, carbon steel is used as a base material and stainless steel which has a composition consisting of  $\leq 0.02\%$  C,  $\leq 1.0\%$  Si,  $\leq 2.0\%$  Mn, 20–27% Cr, 17–45% of (Ni+Co), 2–5% of (Mo+1/2W), 0.01–0.3% N, 0.1–3% Cu and the balance essentially iron and satisfying relation  $\text{Cr} + \text{Ni} + \text{Co} + 2\text{Cu} + 4.1(\text{Mo} + 1/2\text{W}) + 24\text{N} \geq 62$  is used as a cladding material. Further, either or both of  $\leq 0.01\%$  B and  $\leq 0.5\%$  Zr, one or more kinds among  $\leq 0.02\%$  Cr,  $\leq 0.1\%$  Al,  $\leq 0.04\%$  La,  $\leq 0.04\%$  Ce and  $\leq 0.1\%$  Y, or one or more kinds among  $\leq 0.5\%$  Ti,  $\leq 0.8\%$  Nb,  $\leq 1.6\%$  Ta and  $\leq 1\%$  V can be added to the cladding material.

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